

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

VALERY M. DUBIN

Application No.:

Filed: June 25, 2003

For: **METHODS OF FABRICATING A
COMPOSITE CARBON NANOTUBE
THERMAL INTERFACE DEVICE**

Art Group:

Examiner:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted concurrently with the Utility Application. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP



Kerry D. Tweet, Reg. No. 45,959

Date: June 25, 2003

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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(use as many sheets as necessary)</i></p>				<p><i>Complete if Known</i></p>	
Sheet	1	of	2	Application Number	
				Filing Date	June 25, 2003
				First Named Inventor	Valéry M. Dubin
				Art Unit	
				Examiner Name	
				Attorney Docket Number	42P16623

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
1	US-5,780,101		07-14-1998	Nolan, et al.	
2	US-5,965,267		10-12-1999	Nolan, et al.	
3	US-2001/0024633 A1		09-27-2001	Lee, et al.	
4	US-2001/0009693 A1		07-26-2001	Lee, et al.	
5	US-6,325,909 B1		12-04-2001	Li, et al.	
6	US-6,303,094		10-16-2001	Kusunoki, et al.	
7	US-6,495,258 B1		12-17-2002	Chen, et al.	
8	US-6,445,006 B1		09-03-2002	Brandes, et al.	
9	US-6,361,861 B2		03-26-2002	Gao, et al.	
10	US-2002/0172767 A1		11-21-2002	Grigorian, et al.	
11	US-6,350,488 B1		02-26-2002	Lee, et al.	
12	US-6,420,293 B1		07-16-2002	Chang, et al.	
13	US-6,440,761 B1		08-27-2002	Choi	
14	US-2002/0197752 A1		12-26-2002	Choi	
15	US-6,531,828 B2		03-11-2003	Yaniv, et al.	
16	US-2003/0064169 A1		04-03-2003	Hong, et al.	
17	US-6,528,020 B1		03-04-2003	Dai, et al.	
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Examiner Signature		Date Considered	
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (05-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 05/02/2003.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet

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of

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Complete if Known

Application Number	
Filing Date	June 25, 2003
First Named Inventor	Valery M. Dubin
Art Unit	
Examiner Name	
Attorney Docket Number	42P16623

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	18	DUBIN, ET AL., "PACKAGING OF INTEGRATED CIRCUITS WITH CARBON NANO-TUBE ARRAYS TO ENHANCE HEAT DISSIPATION THROUGH A THERMAL INTERFACE", Application no: 10/357,927, Filed: 2/3/03, 28 Pgs.	
	19	LI, ET AL., "HIGHLY-ORDERED CARBON NANOTUBE ARRAYS FOR ELECTRONICS APPLICATIONS", Applied Physics Letters, Volume 75, No. 3, July 19, 1999, Pgs. 367-369.	
	20	WEI, ET AL., "ORGANIZED ASSEMBLY OF CARBON NANOTUBES", Nature, Vol. 416, April 4, 2002, Macmillan Magazines Ltd., Pgs. 495-496.	
	21	PAPADOPOULOS, ET AL., "ELECTRONIC TRANSPORT IN Y-JUNCTION CARBON NANOTUBES", Physical Review Letters, Vol. 85, No. 16, October 16, 2000, The American Physical Society, Pgs. 3476-3479	
	22	LI, ET AL., "GROWING Y-JUNCTION CARBON NANOTUBES", Nature, Vol. 402, November 18, 1999, Macmillan Magazines Ltd., Pgs. 253-254.	
	23	LIU, ET AL., "FULLERENE PIPES", Science, Vol. 280, May 22, 1998, Pgs. 1253-1256.	
	24	AVOURIS, ET AL., "CARBON NANOTUBE ELECTRONICS", Abstract No. 52, Philadelphia meeting abstracts Vol. 2002-1, 201st Meeting of The Electrochemical Society, Philadelphia, PA, May 2002, 3 Pgs.	
	25	ZHANG, ET AL., "SUBSTRATE-SITE SELECTIVE GROWTH OF ALIGNED CARBON NANOTUBES", Applied Physics Letters, Vol. 77, No. 23, December 4, 2000, American Institute of Physics, Pgs. 3764-3766.	
	26	BOWER, ET AL., "PLASMA-INDUCED ALIGNMENT OF CARBON NANOTUBES", Applied Physics Letters, Vol. 77, No. 6, August 7, 2000, American Institute of Physics, Pgs. 830-832.	
	27	FAN, ET AL., "SELF-ORIENTED REGULAR ARRAYS OF CARBON NANOTUBES AND THEIR FIELD EMISSION PROPERTIES", Science, Vol. 283, January 22, 1999, Pgs. 512-514.	

Examiner Signature	Date Considered
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